

Key Klicks

The Green Bay Mike and Key Club Inc.
P.O. Box 13351
Green Bay, WI 54307

September 1993

President	John Wolfe	KE9AS	414-469-2333
Vice President	Ken Cowan	N9LSX	414-468-3431
Secretary	Tom Cih	KB9EWK	414-435-6185
Treasurer	Jake Derenne	N9DKH	414-837-7633
Members at Large	Earl Andre	KB9DSV	414-489-9787
	Scott Cole	KB9AMM	414-496-0990
	Bob Duescher	KA9BXG	414-497-7880

Next Meeting

The next meeting of the Green Bay Mike and Key Club, Inc. will be held on September 9, 1993 at the J. Minahan Science building in the Media Services center on the campus of St. Norbert's College. The meeting will start at 7:30 p.m. Guests are always welcome. Plan now to attend the December meeting at the Ashwaubenon community center. More information at a later date.

Programmers Wanted

The committee that is looking into the new controller for the 147.12 needs to determine if there are any computer programmers within the club that have some time to work on a programming project. If you have these skills and have some time to donate to the club please give either Bob, K9VCN or Dennis, KB9GFX a call. Please contact them before the next meeting.

Technical Corner

As reported at the last meeting some of you have noticed the inability to access the 443.5 repeater. Plans are in the works to improve the sensitivity of the repeater to its former performance. Installation of a pre-selector and pre-amplifier are being looked at as well as a replacement receiver for the unit. In regard to the 147.12 repeater there has been an increase of interference causing the repeater to key up with no signal present. At the last meeting it was decided to refer this to the technical committee for resolution and bring back a proposal to the next meeting. If you have any thoughts, concerns, suggestions please contact either John, KE9AS or Scott, KB9AMM or any board member.

Meeting Minutes

The August meeting was called to order by John, KE9AS, and the roll was taken. There were 34 members and 6 guests in attendance. A motion was made to dispense with the reading of the minutes of last months meeting. The Treasury report was given by Jake,

N9DKH and noted.

Dennis, KB9GFX reported that the committee for the new controller has recommended not buying a commercial controller. Instead, they thought we should build our own. They also think that we could sell the program and recoup some of our costs. During discussion, it was noted that we will need programmers and a call was put out for help. Bob, K9VCN noted it would take about a month to get our new controller up and running and it could then be upgraded as we need it.

The car wash was next on the agenda, and it was decided to postpone it until next year.

John, KE9AS reported that 443.5 repeater has weak receive and noted that a preamp and preselector would help rectify the problem and that when all the information was gathered, it would be brought back before the club. Also discussed were the duplexers for the 147.12 and 443.5 machines. It was suggested that the club purchase our own duplexers for these repeaters. P.L. was suggested for the 147.12 repeater to help save wear from interference. A motion was made to send the question of P.L. to the technical committee. After a hand vote (14-11) the motion was approved. Another motion was made to have a committee come back with a recommendation for the next meeting on the question of P.L. John also reported that the club's TS-440 and the 147.36 controller are in for repairs and are expected back soon.

Neil, KB9CGP gave us the details on the Appleton Club's upcoming corn roast. We will again help with the refreshments.

Dale, WB9NRK reported that there are 3 events upcoming that will need radio communications. Mike and Rita Shores of the Bike Club explained the help that will be needed for the Bayshore Metric Ride.

Patty, KN2F reported that SAM's and Wal-Mart allow non-profit clubs to sell Brats and Burgers on their lots. It was suggested that we look into this as a way of raising some money and advertising the club. Also noted was that Cub Foods does this also.

Paul, KB9IKN asked that new books be purchased for the upcoming Novice/Tech

classes. Also noted was that all testing will be at VE test sites only.

Dale, WB9NRK thanked Ken, N9LSX and Earl, KB9DSV for their help with the wednesday night net.

Virgil, WB9MHS thanked all who helped with the tri-athlon. He reported that all went well and brought a sample of the T-shirt that was given to all that helped. Keith, N9NOF reminded us of the upcoming Fox Hunt on Tuesday night.

Tom, N9LWI noted that there will be a series of articles in the Key Clicks dealing with DX. He asked for questions to be answered in the articles. He also noted that a DX club is in the works and gave a report on DX conditions and upcoming events.

Ken, N9LSX asked that any articles for the newsletter be delivered to him or John, KE9AS by the 20th of each month. A motion to adjourn was made and carried. Submitted by Tom Ciha, KB9EWK-Secretary

Bayshore Metric Bike Tour

It was nice to see a good turnout of members at the Bayshore Metric Bike Tour on a Sunday morning. There was a threat of rain but it held off and we had plenty of sun and dry radios for the day. There were 369 riders for the tour that consisted of 3 routes, a 25, 40 and 64 mile routes. The longest route started at the Shuldes Sport Center at St. Norbert's through Wrightstown to Way-Mor Park and back. Randy KB9EWK and Terry N9OSE held down the fort at the park in Wrightstown and from all the reports did not venture too far from the snacks and refreshments. Bob, N9RQI and Crystal were seen a couple of times during the day traversing the route looking for those in need. Wes, KA9YAW did a fine job as the net controller in spite of some very weak signals from Jamie, N9RPW who spent the entire day assisting Greg, the Sag coordinator, and is now very familiar with southern Brown County. Dale, WB9NRK kept Mike Shores, the Tour coordinator informed of what was happening throughout the course. John, KE9AS spent the morning in the accompany of a nice young lady, Sue Woodruff, in one of the Sag vehicles and was a little let down when he was transferred to another without Sue. Neil, KB9CGP and Dana N9UGM kept low profiles but spent a lot of time racing down the course with one the Sag vehicles looking for that blowout or biker in need. Chad, N9PAY and Jason, N9PAV after they got back form a bit of a detour from the Co-ordinator that sent them in the wrong direction were seen helping out on the course also. The busiest of the operators that helped out was Jim, KB9HQL. Now Jim and son Brian, KB9HXH were assigned to the park at WAY-MOR. It seems that there were also about 5 very young ladies also helping out at the park and it was a busy Jim that had to keep an ear to the radio and an eye on Brian. The organization that sponsored this First Annual bike tour were very appreciative of our help and impressed with our capabilities and professional operations. I think we might be

asked to come back next year for the second annual Bayshore Metric.

Big Brothers, Big Sisters

The Big Brothers, Big Sisters, "Ride for Pride" was held on Sunday August 29th. It started at Vickery Village in Suamico and continued through the Reforestation Camp area. The route was a 15 mile loop. There were riders of all ages from young to old and several riders rode the course twice or more. Like to thank Terry, N9OSE, Randy KB9EWJ, Wes KA9YAW, Sandy N9RDC, Chad N9PAY, John KE9AS, Ken N9LSX, and Dale WB9NRK. Thank you for your support. 73, Dale

Reminder

The monthly siren test for the Brown County Office of Emergency Government is held on the second Wednesday of each month at 11:50 a.m. Check-in on 147.12 and listen for a siren.

Elections

It is that time of year again to notify the club membership that the elections for the Board of Directors will be held at the November 11th meeting. Nominations for the board will be opened at the September meeting. It is suggested that you contact anyone you wish to submit for nomination prior to placing their name before the club for an office. Any changes to the By-laws of the club can only be voted on at the November meeting. If you wish to propose changes to the club's by-laws you should submit them at either of the next two meetings.

Swapfests

Upcomming swapfest in September for those of you that have that urge or still have some spare change after summer is over..

September 12 - Joliet, Ill

September 25-26 Grayslake, Ill

Nets

Dont forget about the nets that are on both the 2 meter and 10 meter frequencies. The Green Bay Area 2 meter net meets every Wednesday night at 8:45 p.m. on 147.12. Information of interest to amateur radio operators is passed on the net both by the Newsline and by A.R.R.L. bulletins. The Green Bay Area 10 meter net meets every Sunday evening at 8:30 p.m. on 28.400 MHZ plus or minus QRM. This is an informal net intended to increase interest in 10 Meters and to familiarize new hams to the world of HF. Taking part of a quote from Timothy Leary, "Turn on, and Tune In".

Classes

Novice/Tech classes will again be conducted on Wednesday Evenings at St. Norbert's college, Media Services center. The classes will start at 7:00 p.m. and cover the information necessary to obtain a Novice or Technician license. Encourage others to attend and join in the fellowship of Amateur Radio.

DX-NOTES

HF-DX'ing is an exciting area of amateur radio. The thought of working a far away "rare" country, receiving a QSL card and proudly displaying it on the shack wall makes the DX effort worthwhile. Over the next few months we will be presenting articles on DX'ing: equipment, information, techniques, QSL'ing and awards.

The first question is: Do I need special equipment to work HF DX? NO! All you need is an HF rig and an antenna. Certainly your chances of working a rare DX-pedition improve with a 1.5 KW linear amplifier and a full size yagi up 100 feet, but many many hams have worked over 300 DXCC countries with 100 watts and a dipole. Initially, the best addition to your equipment is a comfortable set of stereo headphones, with good fidelity, that cover the whole ear to keep out most/all background noise. You can justify higher cost "audiophile" quality headphones by letting your XYL/spouse use them with the stereo when your not in the shack. Some rigs with dual VFO's allow the use of stereo phones with VFO "A" in one ear and VFO "B" in the other. This allows you to work "split" (explained later) very effectively. Other equipment might be a QRM eliminator, external notch filter, voice processor and a boom style microphone with VOX.

The next question is: Where do I find DX stations? DX stations are found through out the ham bands. There are also special DX nets that operate through out the day on

various frequencies. There are also areas within a band known as DX windows. See table 1.

TABLE 1
(Mhz)

BAND	CW	PHONE
80/75	3.500-3.525	3.750-3.800
40	7.000-7.050	7.150-7.300
20	14.020-14.030	14.190 14.200
15	21.020-21.03	21.190-21.200
10	(Throughout - Including the Novice Portion)	

These windows provide a good place to start looking for DX stations in QSO, calling CQ or the object of a pile-up.

Now that we know where to look, what's next? LISTEN, LISTEN, LISTEN. especially in pile-ups. Listen to the operating techniques of the DX station. Some DX stations work split frequency. This technique has the DX station transmitting on one frequency and listening on another or in a range of frequencies. A typical sideband QSO may sound as such:

DX "QRZ DE VP8SSI LISTENING
200 TO 210"

VP8SSI's transmitting frequency might be 14.195 mhz and will be listening for callers between 14.200 and 14.210 mhz. This technique produces less QRM on the transmitting frequency for the DX station and spreads out stations that want to work the DX allowing clearer communication and higher QSO rates per hour. This technique requires a dual VFO rig or a rig with RIT, (Receiver incremental tuning) which allows you to change the receive frequency but leaves the transmit frequency set.

Another call might be:

DX "QRZ DE VP8SSI UP 2"

This means the DX station is listening for callers 2 khz up from the transmitting frequency. This technique makes it more difficult to make contact since all stations are transmitting on the same frequency. This is where patience and good listening pay off. First, listen to a couple of QSO's to develop timing and the DX operators technique. Some stations want full call signs, some repeat only your last two characters, some run a pile up by area or numbers. A CW call may look like this:

DX "QRZ DE VP8SSI 9'S ONLY"

If the pile up is big try transmitting on the edge of the pile-up, .5 to 1 khz above or below the main group. Timing is also key. Most DX stations have a set pattern for QSO's:

DX "QRZ DE VP8SSI UP 2 9'S ONLY"

"N9WLI N9LWI"

DX "N9LWI 599 5NN TU" (N=9, TU=Thank you.)

"FB UR 599 5NN WI WI OP TOM TOM TU 73 DE N9LWI EE"

DX "QSL TOM 73 QRZ 9's ONLY"

If you can hear the domestic station, try to zero beat that frequency and call immediately after the "QSL 73 QRZ". A tricky technique called "tailending" has you anticipating the end of the domestic station's transmission and you transmitting immediately thereafter, before the DX station calls QRZ. This

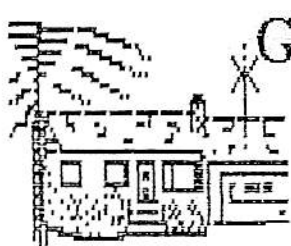
technique while difficult can provide a good opportunity for a QSO. Another technique is to wait a few seconds for the pile-up to subside then sending your call during the lull. I've found this technique most productive.

While listening to QSO's copy pertinent information such as the operator's name, QTH, and QSL info. When logging always use UTC time being very careful to change the date. Most DX stations log with UTC time. It is most frustrating to send a QSL card only to have it returned saying "Not in the log." because the time and date were local instead of UTC.

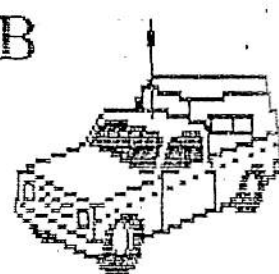
Another method of working DX is through a DX net. DX nets use list operations where the domestic stations that want to work a DX station follow the net controller's procedures to get on the list and then call the DX station when you are called. DX list operations are very time consuming but from time to time special DX-peditions show up and your chances of working the DX station improve dramatically. It is imperative that all stations wanting to work the DX follow the net controller's procedures.

In future articles we'll discuss QSL'ing techniques and awards offered by various radio associations. Until then "GUD DX" and listen, listen, listen.

73 Tom, N9LWI




GREEN BAY MIKE & KEY CLUB



SEPTEMBER, 1993

President	John Wolfe	KE9AS	414-468-2333
Vice President	Ken Cowan	W9LSX	414-468-3431
Secretary	Tom Ciha	KB9EVK	414-435-6185
Treasurer	Jake Derenne	W9DKH	414-837-7633
Members at Large	Earl Andre	KB9DSV	414-499-9787
	Scott Cole	KB9AMM	414-496-0990
	Bob Duescher	KA9BXG	414-497-7880

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

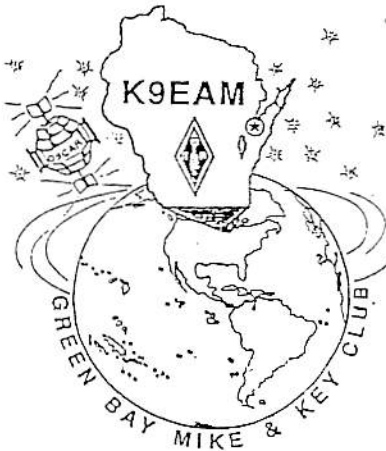
			1 WED NIGHT NET 8:45 P. M. EARL & KEN NEW RADIO LEAGUE 7:30 P. M.	2	3	4
5 FOOTBALL L. A. RAMS AT MILWAUKEE NOON (TV - 5)	6  LABOR DAY	7 GBM & K BOARD OF DIRECTORS ???????????? ????????????	8 SIREN TEST 11:50 A. M. CHECK IN 147.12 +	9 GBM & K CLUB MEETING 7:30 P. M. ST. NORBERT	10	11 NATIONAL PET MEMORIAL DAY
12 SWAPFEST JOLIET, ILL FOOTBALL EAGLE AT GREENBAY NOON (TV-5)	13	14 C Q TUESDAY 12:00 NOON DOWNTOWNER FOX HUNT 7:00 P. M. (147.555) HAVE FUN	15 INTRODUCTION NOVICE/TECH CLASS 7:00/9:00 PM ST. NORBERT	16	17 CITIZENSHIP DAY	18
19 NO FOOTBALL BYE WEEK No. 1 HAVE A NICE DAY	20 FOX CITY RADIO CLUB MEETING 7:00 P. M.	21	22 NOVICE/TECH 7:00 / 9:00 P. M. ST. NORBERT	23 FIRST DAY OF AUTUMN	24	25 SWAPFEST RADIO EXPO (8-AM/4-PM) GRAYSLAKE ILL (2 - DAYS)
26 SWAPFEST RADIO EXPO FOOTBALL GREEN BAY AT MINNESOTA NOON (TV-5)	27	28	29 NOVICE/TECH 7:00 / 9:00 P. M. ST. NORBERT	30		



CLUB CALL SIGN K9EAM

147.120 +
147.360 +
443.500 +





K9EAM
GREEN BAY MIKE & KEY CLUB
 POST OFFICE BOX 13351
 GREEN BAY, WI 54307

COMMERCIAL - RESIDENTIAL - RECREATIONAL

THER-O-KLEEN
 JANITORIAL
 CARPET & UPHOLSTERY CLEANING

Featuring **host** The Dry Extraction
Carpet Cleaning System

833-8428
 800-784-7887
 (N.E. WI LATA)
CALL
 THOMAS THEROUX
 Owner

TOWER ELECTRONICS

CONNECTORS, ADAPTORS, & MORE

1-800-662-3422
 (414) 496-0989



P.O. BOX 12631
 GREEN BAY, WI 54307

2205 DOROTHY LANE
 GREEN BAY, WI 54304

PORTABLE PRODUCTS CO.

Waukegan Custom Enclosures Specialists
 6834 Pearson Ave., Green Bay, WI 54304
 (414) 496-0837
 (800) 236-0837

MAXRAD ANTENNAS FOR

146, 220, 440 & DUAL BAND

DICK WIDDEX

TERRY NIFFEJ

1010 S. Military Avenue
 P.O. Box 11567
 Green Bay, Wisconsin 54307-1567
 Residence Phone 465 8456
 Business Phone 499 3131



LARRY GAROT
 Sales/Leasing Executive

THE BEST CHOICE

Neil Geiger Studio

Neil Geiger - (KB9CGP)
 113 East 5th Street
 Kaukauna, WI 54130
 (414) 766-9679

"Photographers call all the Shots."



POMP'S TIRE SERVICE INC.
 165 VELD AVENUE
 GREEN BAY, WISCONSIN 54303
 (414) 498-9126

ALLEN, DANIEL H. PRO. SLASH, A THUNDERBOLT
 BUREAU SUPER - MINNEAPOLIS, MINN.

CARL A. BOSSE SR.
 STORE
 MANAGER



Dean Ayars

1800 West Mason Street
 Green Bay, WI 54303

(414) 499 4519

THOUSANDS OF ADVERTISING ITEMS TO HELP PROMOTE
 YOUR BUSINESS

MASS ADVERTISING
 CUSTOM SCREEN PRINTING
 ON JACKETS, JERSEYS, AND
 ATHLETIC WEAR

1126 PEARL ST. P.O. BOX 2127, GREEN BAY, WI 54305
 1-800-345-6432 NAT'L 1-414-432-8777 FAX